



# **THE 4<sup>TH</sup> PENTAGON ACCESSIBILITY FORUM**

***July 11, 2003***

**ACCESS FOR PERSONS WITH DISABILITIES  
During & After Pentagon Renovation**



# INTRODUCTIONS



***Mike Sullivan***

**PROGRAM MANAGER**

**Pentagon Renovation Program Office**



# WELCOME



## *Raymond F. DuBois*

**DIRECTOR ADMINISTRATION AND MANAGEMENT**

**Office of the Secretary of Defense**



# REMARKS



***John M. Molino***

**ACTING DEPUTY UNDER SECRETARY OF DEFENSE**

**(Equal Opportunity)**





# REMARKS



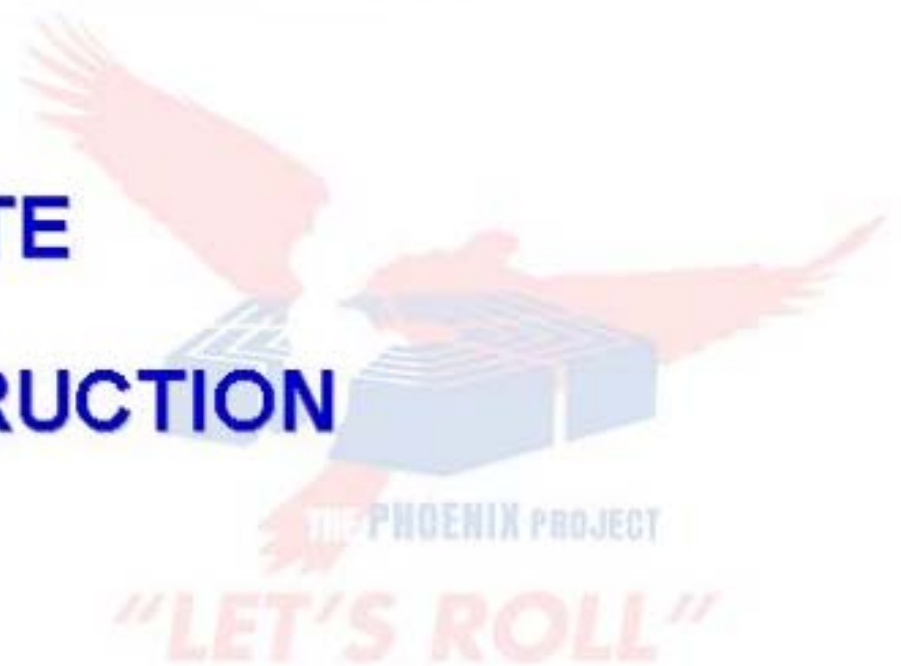
***Ralph Newton***

**ACTING DIRECTOR**

**Real Estate & Facilities, WHS**



# CRASH SITE RECONSTRUCTION



***Dave Gabel***

**IPT Leader**

**Pentagon Renovation Program Office**



# The Crash Site



**September 11, 2001**



Phoenix

# Emergency & Recovery Efforts

## **PENREN TECHNICAL SUPPORT**

Engineering all Disciplines  
Shoring Material  
Heavy Equipment

## **PENREN ACQUISITION SUPPORT**

**Awarded \$570 M IN 4 DAYS FOR:**

Recovery of Wedge 1  
Recovery of Wedge 2  
Crash Site Reconstruction





# Emergency & Recovery Efforts

Phoenix



September 12, 2001



# End of Recoveries

Phoenix



For the Heroes





**Phoenix**

# Demolition



**Between Corridors 4 and 5; Rings C, D and E**



# Crash Site Reconstruction

**Phoenix**



**2<sup>nd</sup> Floor Slab Placement**





**Phoenix**

# Crash Site Reconstruction



**4<sup>th</sup> Floor Slab Placement**





**Phoenix**

# Crash Site Reconstruction



**Reinforcing the E- Ring Wall**



**Phoenix**

# Improvements

## **Exterior**

**Reinforcement of E and A-Ring Walls**  
**Blast Resistant Windows**

## **Interior**

**Improved Interior Features**

**Vertical Transportation**

**Access/Egress (common and tenant spaces)**

**Space Layouts & Orientation**

**Pressurized Stairwells**

**Improved Fire Protection**

**Full Height Concrete Masonry Units**

**Additional Standpipes**

**Automatic Fire Suppression Doors**

**Fire Alarm Detection System Upgrades**

**Photoluminescent Signage**

**Improved Air Quality**

**Energy Efficient Building Systems**

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**NOTE: Above improvements also apply to Wedges 2-5.**





**Phoenix**

# Improvements



**Blast Resistant Window System**



Phoenix

# Improvements



Improved Automatic Fire Suppression Doors



**Phoenix**

# Improvements



**Fire Suppression: Additional Stand Pipes**





**Phoenix**

# Improvements



**Rigid Division of Space**



**Floor to Ceiling Concrete Masonry Unit Walls**



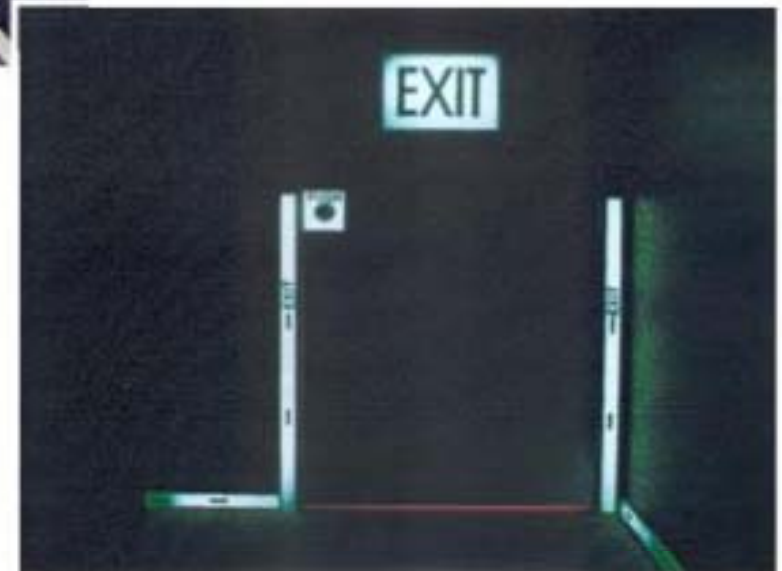
**Phoenix**

# Improvements



**Photoluminescent**

**Signage**





**Phoenix**

# Improvements



**Systems Furniture in Wedge 1**



**Phoenix**

# Improvements



**E-Ring Executive Office in Wedge 1**





**Phoenix**

# **Job Well Done**



**September 11, 2002**





# METRO ENTRANCE FACILITY

*MEF* Arriving in Style.

***Charles Malacarne***

**IPT Leader**

**Pentagon Renovation Program Office**



# The Old Metro Station

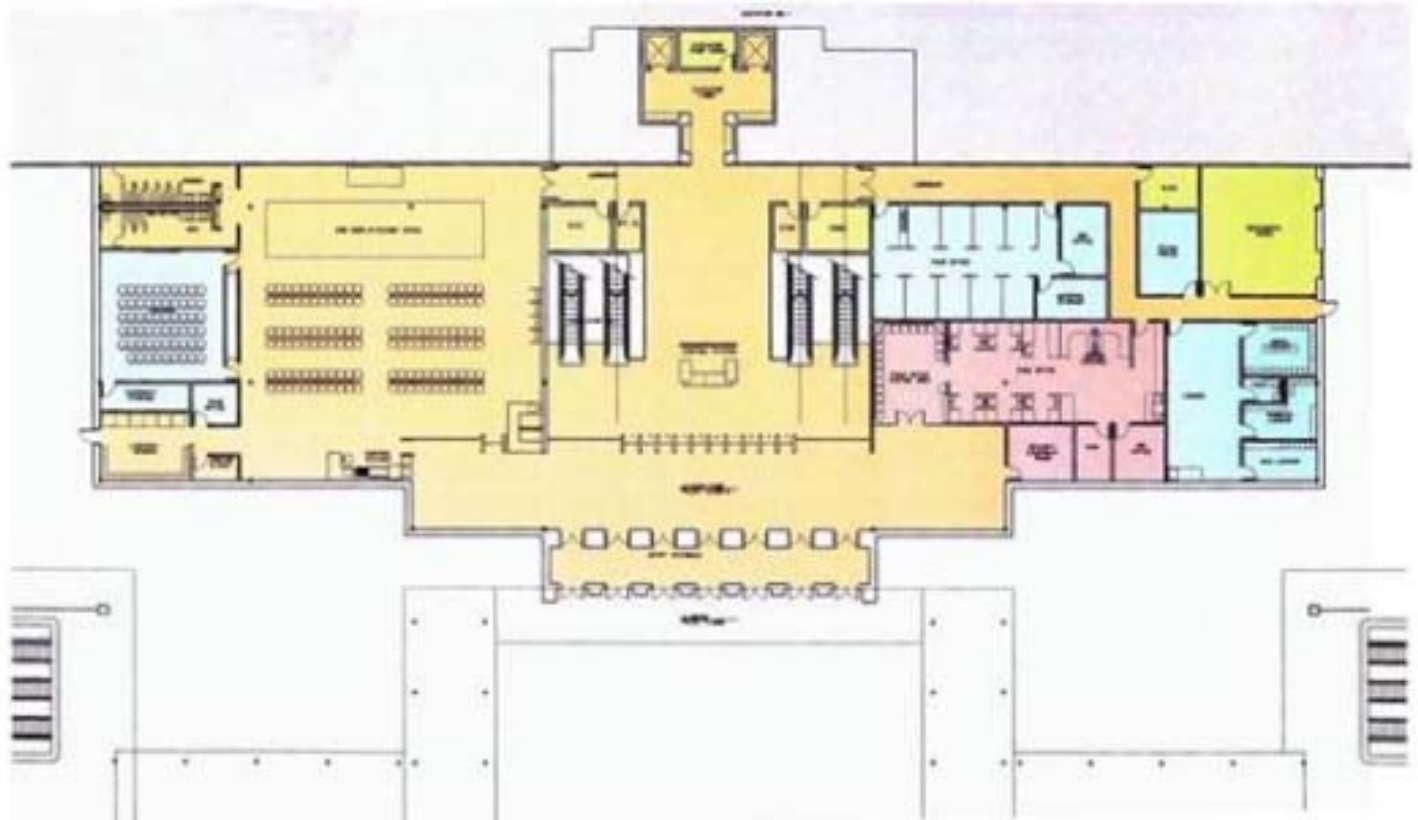


Prior to Construction of MEF



MEF

# The Planning & Design Stage



Floor Plan: The Entrance & Visitors Center





**MEF**

# The Planning & Design Stage



**Facility Model**



**MEF**

# **Under Construction**



**Canopy Area Nearing Completion**





**MEF**

# Under Construction



**Completing the Pedestrian Bridge**



# Improvements

MEF

## **Redundant Vertical Transportation**

- Two elevators at bus loop
- Two elevators from Metro to street level
- Two elevators from building entrance level to concourse

## **Pedestrian Weather Protection**

- Coverage at all connecting walkways
- Windscreens at walkways

## **Improved Safety and Security**

- Close circuit TV cameras throughout facility
- ADA-compliant emergency call stations
- Increased lighting

## **Enhanced Way-Finding**

- New ADA-compliant signage
- Clear, unobstructed paths of travel



# Improvements

MEF



Completed Main Lobby





# Improvements

MEF



Visitors Center from South Parking



# Arrived in Style

MEF



Upper & Lower Bus Platforms



# **WEDGES 2-5**

## **RENOVATION**



***Wendy Thompson***

**IPT Leader**

**Pentagon Renovation Program Office**





# W 2-5 Phasing

*Baseline Schedule*



*2010 Accelerated Schedule*



**Wedge 1  
complete**



**Renovation Schedule**



## Wedge 2

# Start of Renovation



**Interior Demolition & Window Replacement**



# Interior Renovation

## Wedge 2



**Structural Elements During Demolition**





# Interior Renovation

## Wedge 2



**Demolition Down to Bare Structure**



# Interior Renovation

**Wedge 2**



**Studwork Near Completion**



## **Wedge 2**

# **Improvements**

## **Exterior**

**Reinforcement of E and A-Ring Walls**  
**Blast Resistant Windows**

## **Interiors**

### **Improved Interior Features**

**Vertical Transportation**

**Elevator Lobbies**

**Access/Egress (common and tenant spaces)**

**Hall Corridors**

**Space Layouts & Orientation**

**"Smart" Partitioning**

**Furnishing**

### **Improved Fire Protection**

**Full Height Concrete Masonry Units**

**Additional Standpipes**

**Improved Division of Space**

**Improved Automatic Fire Suppression Doors**

**Photoluminescent Signage**

**Improved Air Quality**

**Energy Efficient Building Systems**





## Wedge 2

# Improvements



**Mechanical Fan Power Induction Unit**



## Wedge 2

# Improvements



Interior View of New Corridor 4.5



# Improvements

## Wedge 2



Exterior View of New Corridor 4.5





# Improvements

**Wedge 2**



**A-Ring Corridor**



## Wedge 2

# Improvements



Entry into the MOCKUP



**Wedge 2**

# Improvements



**MOCKUP: Smart Wall**





# Improvements

## Wedge 2



**MOCKUP: New Furniture Design**



# Improvements

## Wedge 2



**MOCKUP: New Furniture Design for Private Office**



# SWING SPACE ACCESSIBILITY

***Stephanie Nagel***

**IPT Leader**

**Pentagon Renovation Program Office**





**Swing  
Space**

# **We Need Your Input**

## **Swing Space Management and Security**

**The Pentagon Renovation Program pays for leased space in GSA buildings for tenants who have been moved out of the Pentagon to support the ongoing renovation.**

**The Program also pays RE&F for providing building maintenance and operation services, and PFPA for providing security services.**

## **Swing Space Accommodations**

**While we know that GSA facilities must meet ADA requirements, there are always places to make improvements to better respond to and serve handicapped users.**

**The PenRen program hopes to get more information and feedback from this forum to provide better service in concert with GSA and RE&F.**



# **PENTAGON & FOB2: EVACUATION & SECURITY**



***James Ashcraft***

**Director, Administration and Logistics**

**Pentagon Force Protection Agency**



# Evacuation & Security

## **Emergency Notification**

Computer Emergency Notification System (CENS)  
Public Address System "Big Voice"  
Pentagon Channel "Crawl"

## **Scenarios**

"Stay in Place"  
Relocate Within the Building  
Evacuate

## **Evacuation**

Multiple Routes  
Multiple Assembly Areas





# Evacuation & Security

continued

**Police officers and/or augmentees will direct and assist**

**Augmentees from the military services are being identified**

**Augmentees will be trained and equipped by PFPA**

**WHS and PFPA staff are now serving as augmentees**

**Routes will be “swept” for security and passability, and cleared of as many obstacles as possible**



# Evacuation & Security

continued

**PFPA is constantly evaluating and improving Security and Force Protection measures.**

**Random antiterrorism measures (RAMS)**

**Upcoming exercise Gallant Fox**

**Emergency Escape Mask Program**

By now most tenants have escape masks  
Ongoing training and issue  
Mask Training Center (703-695-8688)  
Still evaluating other technologies



**RE&F  
Directorate**

# **ACCESSIBILITY: ROLES & SUPPORT**



***Robert Candido***

**Deputy Building Manager**

**Pentagon Building Management Office**





**RE&F  
Directorate**

# **Accessibility: Two Main Roles**

## **Overall Program Reviews**

**Periodic review of plans to ensure accessibility goals are addressed**

## **Direct Actions**

- **Construction/Renovation/Alteration/Repair to address existing issues based on severity, renovation schedule, and funding**
- **Dissemination of Information**



**RE&F  
Directorate**

# **RE&F Review/Coordination Process**

## **For Accessibility**

### **Internal to RE&F**

- **Pentagon Building Management Office:** Operations & Maintenance issues related to accessibility
- **Safety Office:** Safety issues related to accessibility in renovated and unrenovated segments
- **Management Support Division:** Transportation issues such as DoD Buses, Slugs...
- **Technical Staff Division:** Engineering support

### **External to RE&F**

- **Pentagon Renovation Safety IPT:** PenRen projects related to accessibility issues
- **Fire Marshall:** Fire protection/suppression and code enforcement/violation issues
- **Pentagon Force Protection Agency:** Parking issues



Pentagon  
FOB2

# Review Activities

## **Pentagon Renovation Projects**

- Participate in design reviews (concept to final)
- Review progress at all construction sites and contribute to obstacle reduction/prevention

## **PFPA Security Plans**

- Provide input on facility access and egress

## **Moves & Construction** (Generated by Tenants & RE&F)

## **Special Events:** Review of plans to prevent/minimize:

- Blockage of egress or access routes
- Tripping hazards
- Crowding/Overcrowding
- Noise and clutter





**Pentagon  
FOB2**

# **Direct RE&F Projects/Actions**

## **For Accessibility Improvements**

### **Planning and Programming of Projects**

### **Execution of Programmed Improvements:**

- Automatic door retrofit to Proximity Door Openers (ongoing)
- Replacement of Corridor 3 & 4 Apex doors (completed)
- Ramps to sidewalks to address temporary security upgrades (ongoing)
- Covered walkways (completed)



## Pentagon

# Improvements



**“Proximity Door Openers” to Replace Buttons**



# Improvements

## Pentagon



**New Corridor 3 & 4 Doors**





# Improvements

Pentagon



Sidewalk Ramps



**Pentagon**

# Improvements



**Covered Walkways**



# **SECURE BYPASS** **SECURE ACCESS LANE**



***Gregory Henion***

**IPT Leader**

**Pentagon Renovation Program Office**





# Pentagon Secure Bypass

## **Accessibility Highlights**

**Creation of 56 accessible parking spaces as part of the Pentagon Secure Bypass (PSB) Project**

**Installation of two accessible ramps over the PSB**

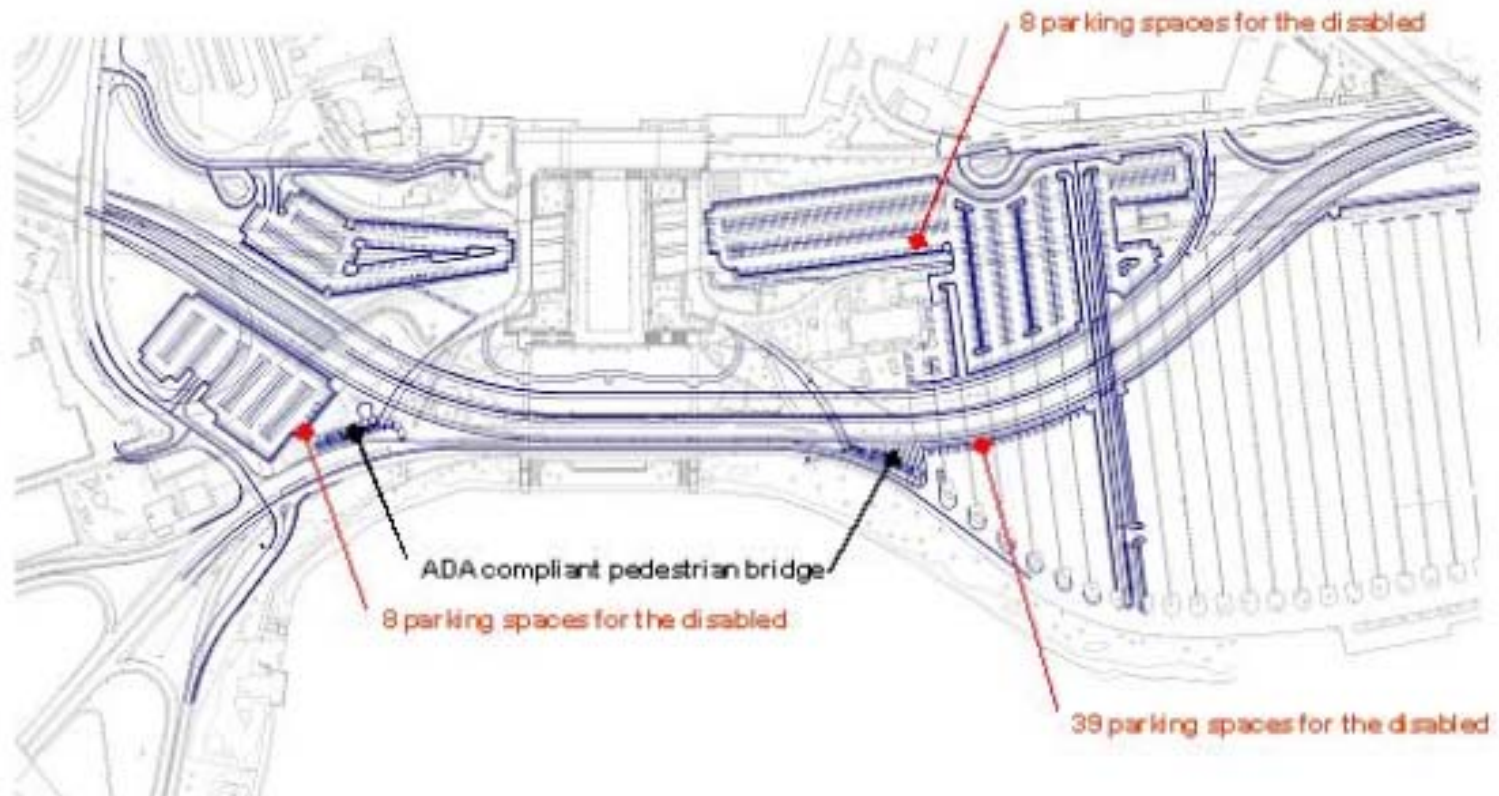
**Modification of one non-ADA-compliant walkway to Corridor 8 Bridge to meet ADA requirements**

**Installation of a 10' wide lighted ADA compliant trail as part of the RDF-SAL Project**

**Installation of curb cuts across long parking lot rows and elsewhere as appropriate**

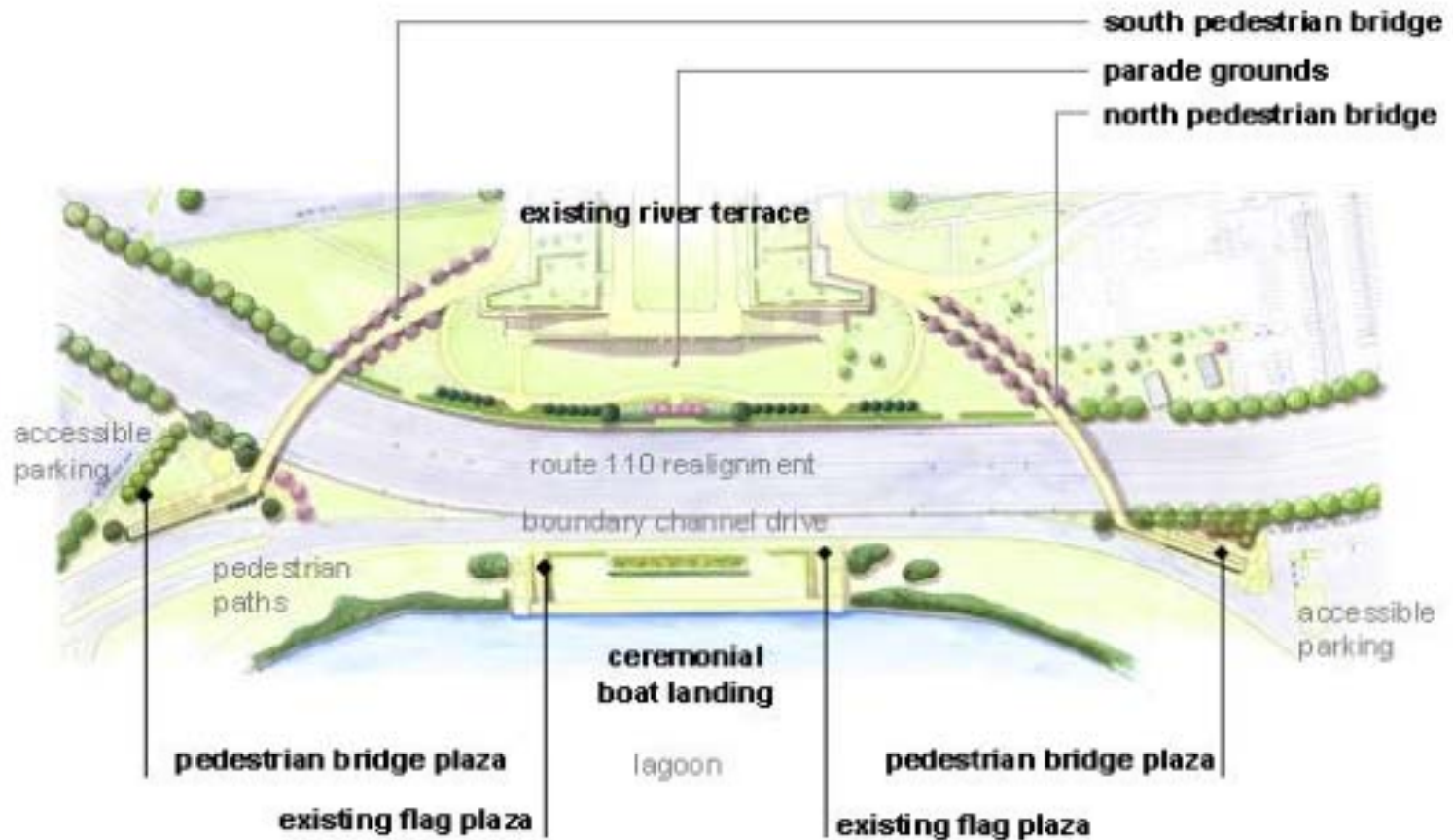


# Pentagon Secure Bypass





# Pentagon Secure Bypass







# Pentagon Secure Bypass



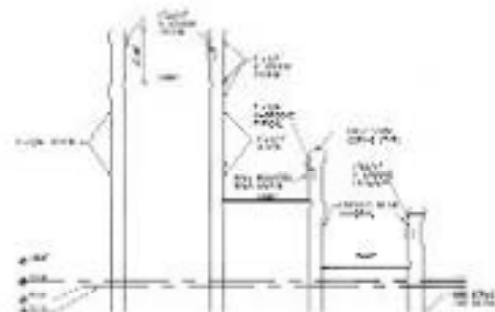
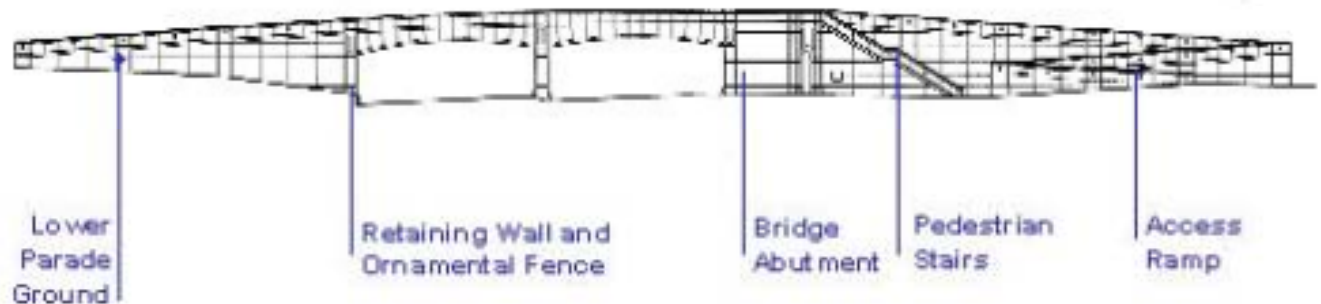


# Pentagon Secure Bypass





# Pentagon Secure Bypass



22 foot approximate  
change in elevation  
From bridge to plaza



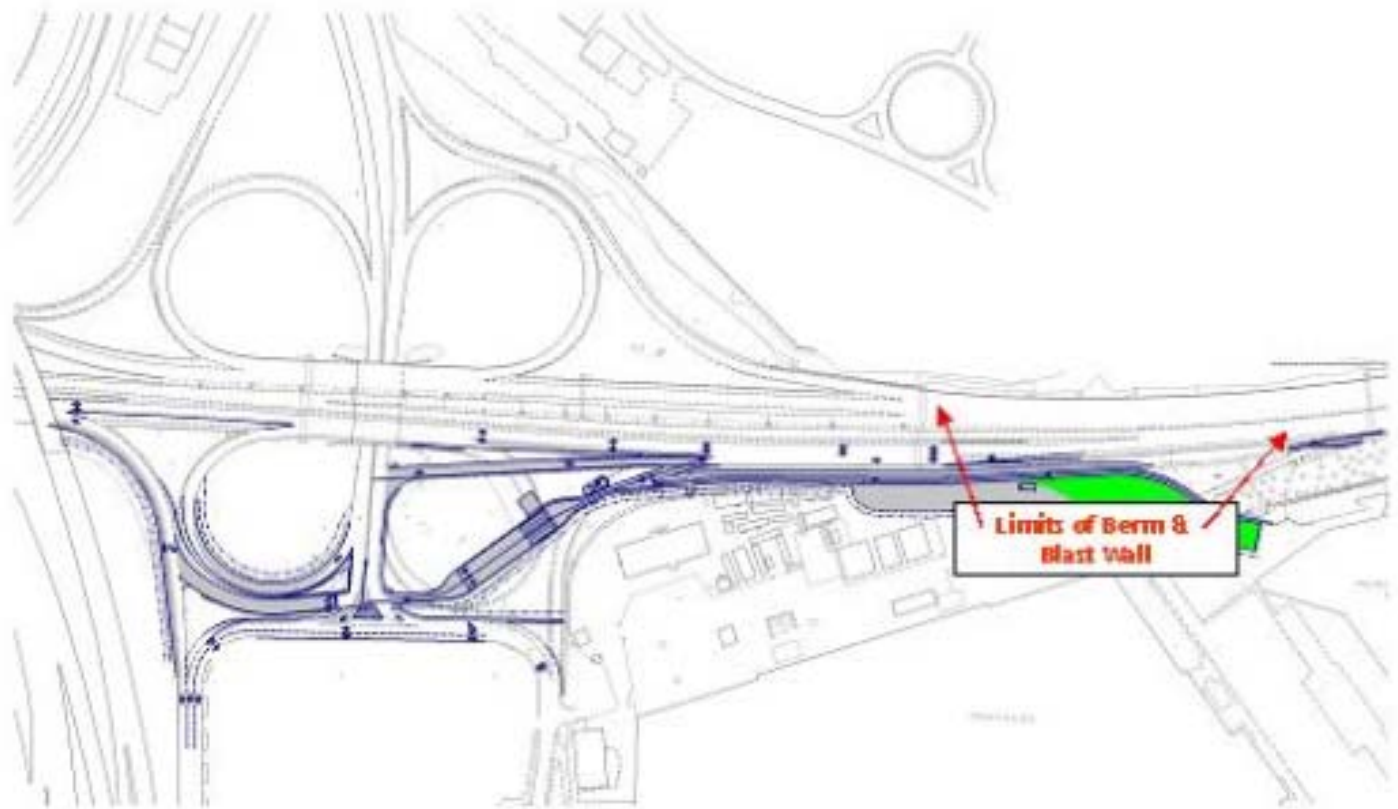


# Pentagon Secure Bypass





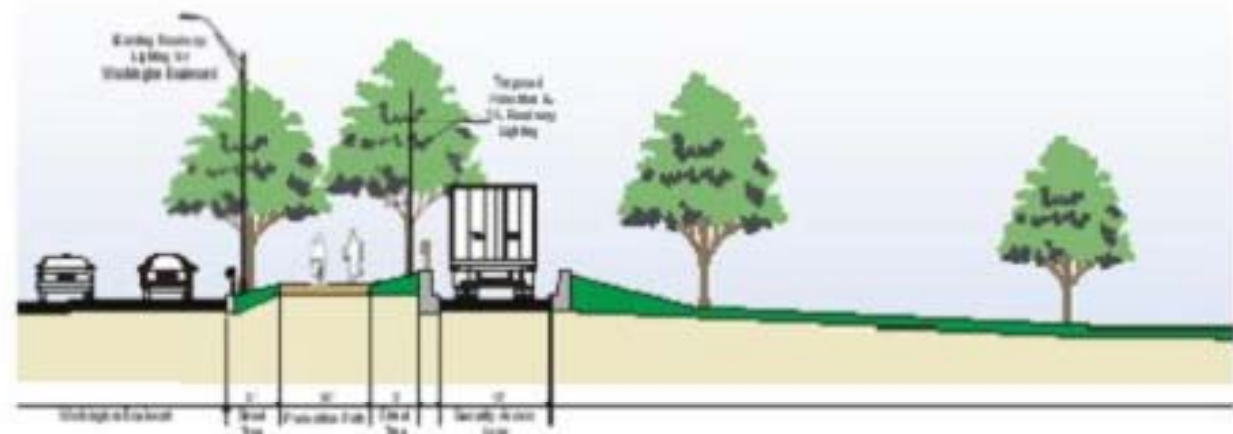
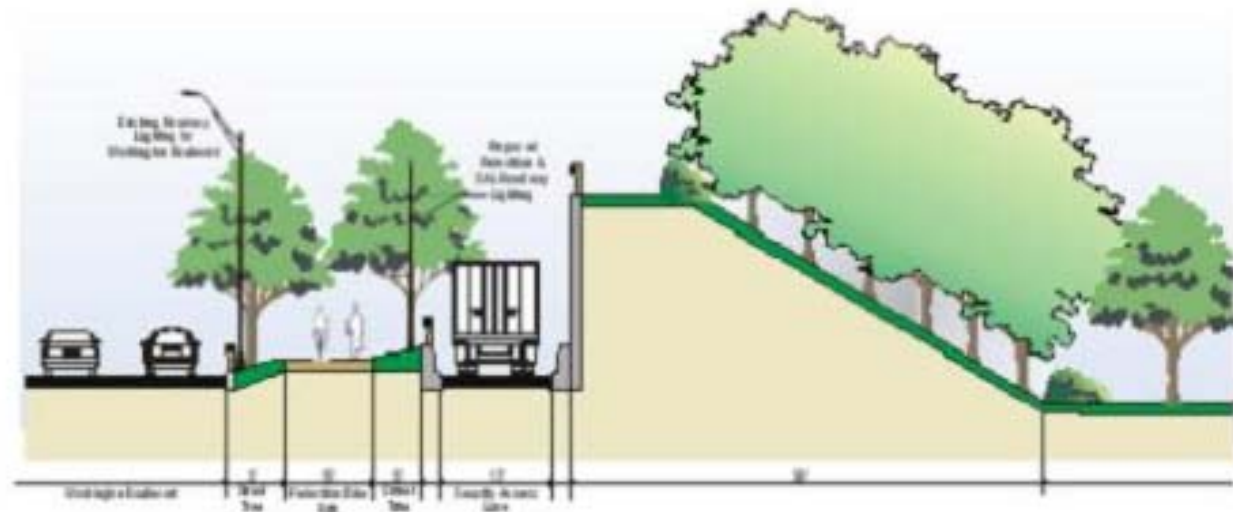
# RDF Secure Access Lane



**Project Site Plan**



# RDF Secure Access Lane







# PENTAGON MEMORIAL



***Jean Barnak***

**IPT Leader**

**Pentagon Renovation Program Office**



## Pentagon Memorial

# Concept Design





## Pentagon Memorial

# Concept Design



Memorial Unit





## Pentagon Memorial

# Concept Design



**“A Place Like No Other”**



## Pentagon Memorial

# Project Overview



**Buffer Zone:** A buffer zone comprised of a thirty foot-wide strip of land at the northern boundary of the Memorial Park has been established to keep an area free of any obstruction or construction-related activity associated with the ongoing renovation of the Pentagon.

**Project Site:** Two distinct adjacent areas (Memorial Park and Memorial Gateway) on Pentagon Reservation divided by a Buffer Zone.

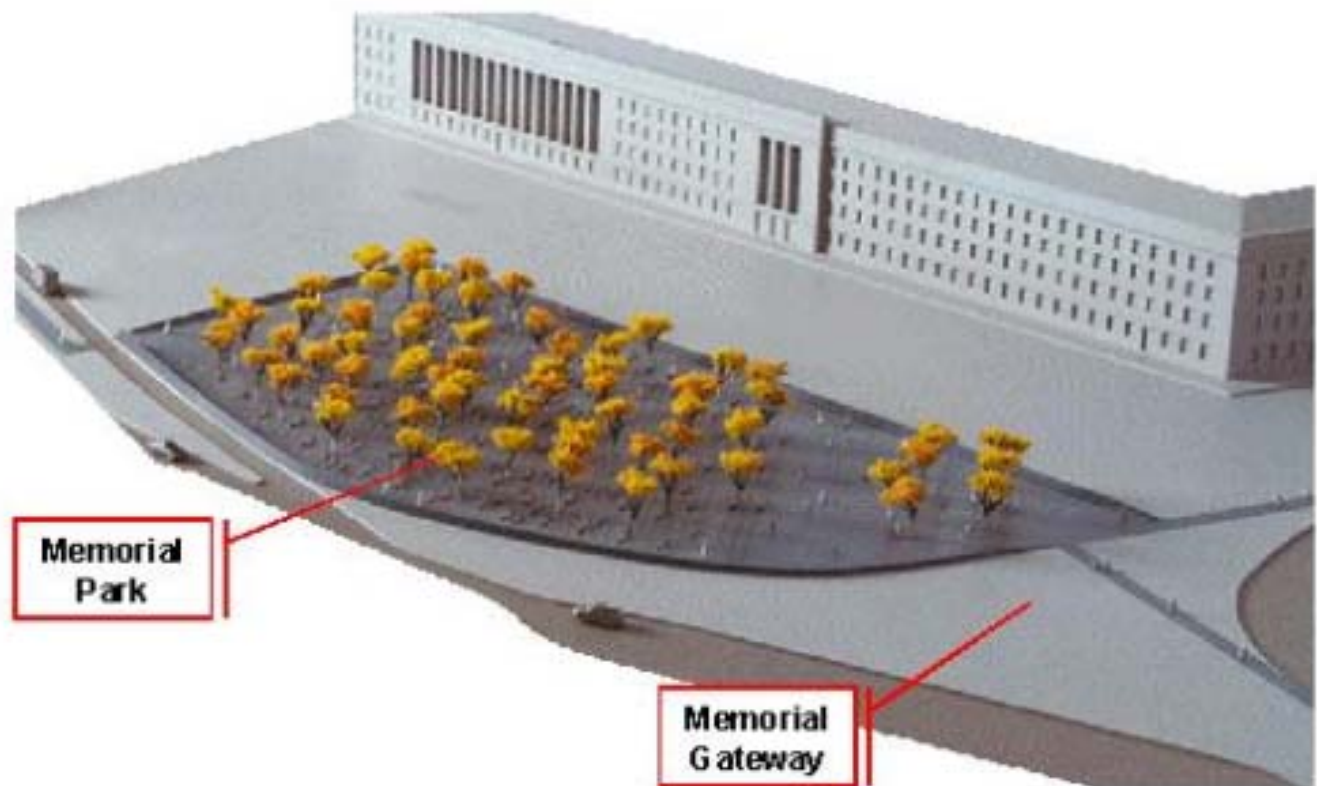
**Memorial Park:** Established the site parameters for the USACE-led competition for a concept design and consists of approximately 1.93 acres.

**Memorial Gateway:** Functional and interpretive landscaped buffer between the Pentagon's South Parking lot and the Memorial Park. The Memorial Gateway will serve as the primary visitor entry point into the Memorial Park and consists of approx. 43,000 SF.



## Pentagon Memorial

# Concept Design



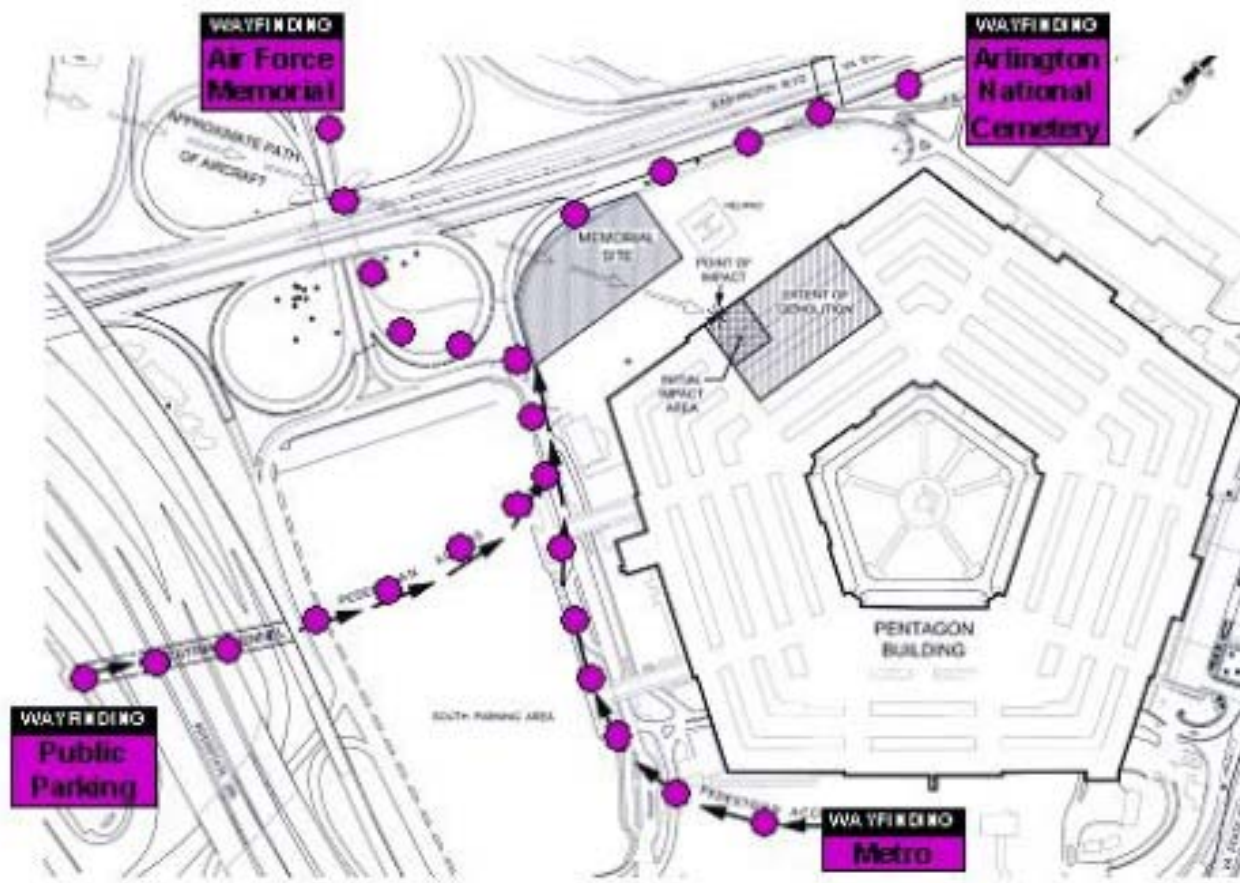
Model of the Project Site





## 9-11 Memorials

# Visitor Way-Finding



Provide Visitor  Way Finding



## 9-11 Memorials

# The Big Picture







# Air Force Memorial



Artist's Rendering





# PENTAGON ATHLETIC CENTER



***Charles Malacarne***

**IPT Leader**

**Pentagon Renovation Program Office**



# Pentagon Athletic Center



Project Phasing and Location



**Pentagon  
Athletic  
Center**

# **Under Construction**



**Area at Mall Terrace**





## Pentagon Athletic Center

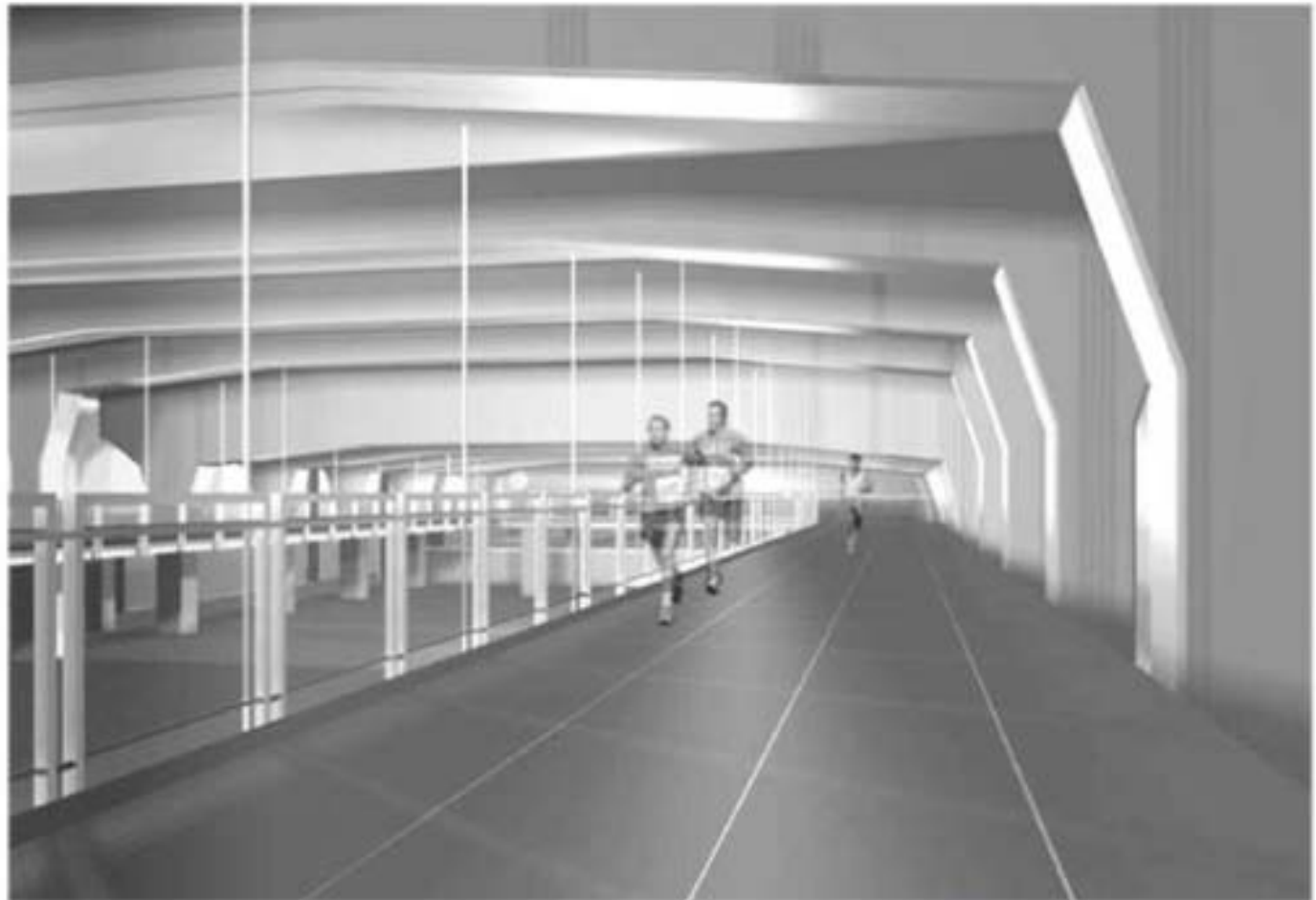
# Floor & Phasing Plan





**Pentagon  
Athletic  
Center**

# Interior Rendering



**New Running Track**



**Pentagon  
Athletic  
Center**

# Interior Rendering



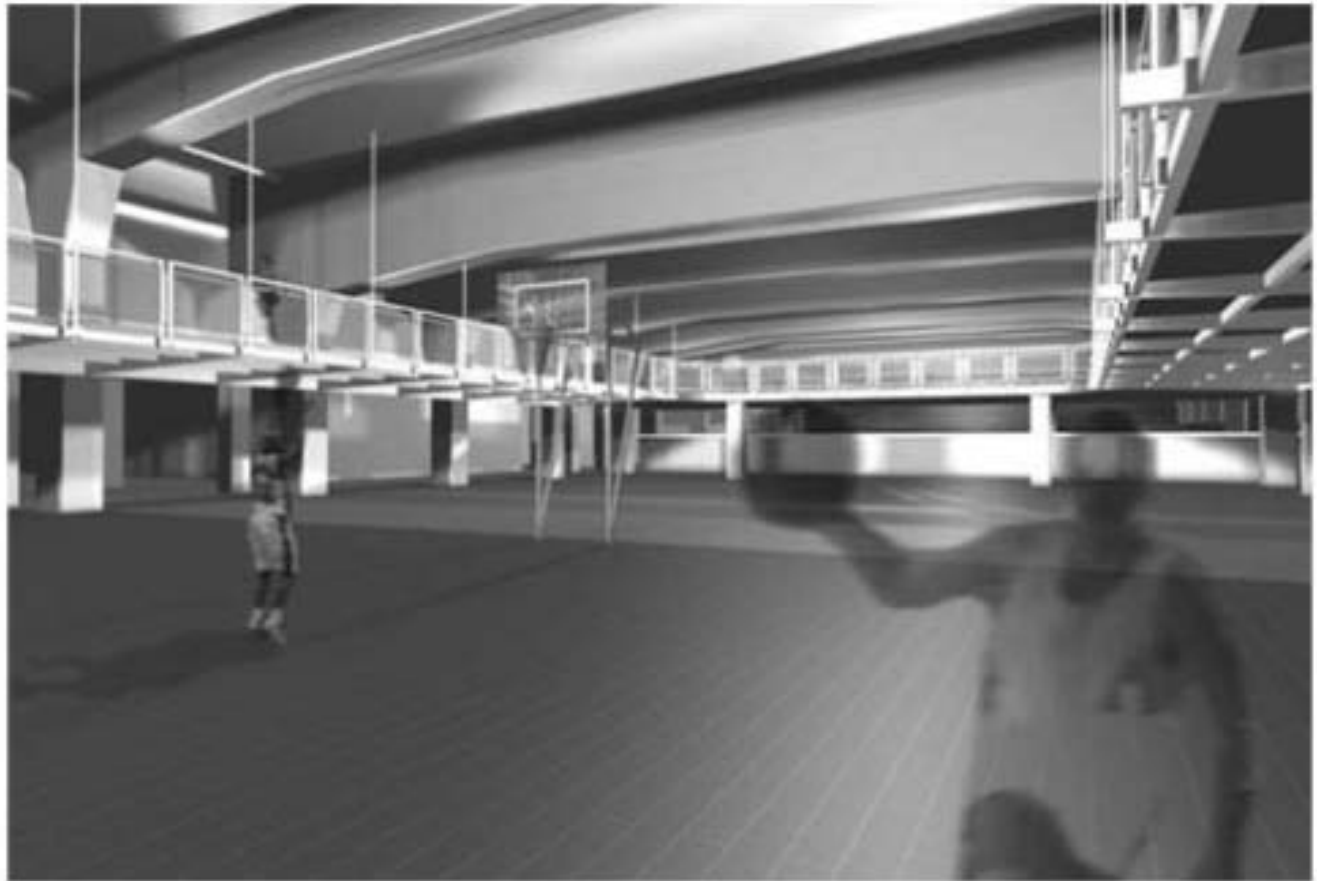
**Pool Area with Running Track in Background**





**Pentagon  
Athletic  
Center**

# Interior Rendering



**New Running Track Above Basketball Courts**



**Pentagon  
Athletic  
Center**

# Interior Rendering



**New Exercise Area**



# Questions & Answers





# Closing Remarks



***Dr. Georgine Glatz, P.E.***

**CHIEF ENGINEER**

**Pentagon Renovation Program Office**